

# FOLIO

THE UNIVERSITY OF ALBERTA STAFF BULLETIN

EDMONTON, ALBERTA

27 APRIL 1978

## **SLOWPOKE AT THE UNIVERSITY OF ALBERTA**

"Slowpoke," in the parlance of nuclear physicists, means "safe, low-power critical experiment." Specifically, it refers to a nuclear reactor of original design by Atomic Energy of Canada, intended for use in institutions like universities and safe enough to be operated with a minimum of supervision and without danger to the environment.

The University of Alberta Slowpoke reactor facility, housed in the Faculty of Pharmacy and Pharmaceutical Sciences, was officially opened in a ceremony last Saturday, 22 April, although it has been in operation since last fall. The facility cost \$250,000 and was funded through the National Research Council of Canada and the 3AU Fund. It is the fourth in a Canadian university and the only one in Western Canada.

The Slowpoke reactor contains about two pounds of Uranium-235 inside a sealed vessel, which in turn is immersed in twenty feet of water. The water acts as a radiation shield and cannot become contaminated. This small amount of Uranium-235 is much less than the critical mass (the smallest amount of the material that will sustain a nuclear chain reaction), so there is no danger of explosion. Moreover, the reactor does not produce plutonium as it operates, so there is no disposal problem; plutonium is a radiological poison, used in nuclear weapons and produced artificially in some reactors by neutron bombardment of uranium.

The nuclear reaction in Slowpoke is made self-sustaining, or critical, by surrounding the uranium with beryllium. The reaction can be stopped at any time by inserting a cadmium rod into the core of the reactor. The reaction produces a dense flux of neutrons which are capable of making many substances radioactive. Access to this flux is obtained by six tubes extending into the heart of the reactor. Small capsules containing material to be irradiated are blown into these tubes by compressed air and blown out again after a suitable interval so that they can be analyzed or their radioactivity used.

The University uses a considerable quantity of radioactive materials, but it has been at a disadvantage because of its distance from the usual sources of supply and thus had



difficulty obtaining the short-lived radionuclides that are useful for many aspects of research. With the Slowpoke reactor, a number of radionuclides can be made as they are needed and experiments can be done on them as soon as they are produced.

Fluorine, for example, an element that combines readily with other chemicals, is vital to several experiments conducted in the Faculty of Pharmacy and Pharmaceutical Sciences. Because radioactive

fluorine has a half-life of a little less than two hours, it must be used quickly; this also means that it gives off reduced radiation to patients on whom it may be used, because the radioactivity quickly disappears. The fluorine locates quickly in bone, and its radioactivity can outline abnormal bone growth. Research in the Faculty of Pharmacy and Pharmaceutical Sciences is being done to combine fluorine into compounds which will accurately delineate tumors and thus help indicate the extent to which a

cancerous growth has spread. Similar experiments are also being done with thirty-five-hour bromine, which can be combined with a number of anti-cancer drugs. This permits observation of whether such drugs actually do localize in tumors. Other medical applications include preparation of radioactive gold for studies in arthritis and radioactive phosphorus for studies in tooth decay.

The capability for making a substance radioactive has a major application in the technique called activation analysis. A small sample of the material to be analyzed for its constituent elements is inserted into the reactor. After it is removed, the radiations it emits are analyzed and the constituents measured against the radiations characteristic of the radioactive elements produced.

One application of this type of analysis is the measurement of the element selenium in hair and body tissues. A short irradiation of this element by neutrons in the reactor makes it radioactive with a measurable 162 KeV gamma ray. By this method, as little as 0.1 micrograms of selenium can be detected. This element, which has a varying distribution across Alberta, is important to animals and may be essential for humans as well.

A number of projects are being considered to study environmental elements such as chromium, arsenic, and molybdenum, which are difficult to assay by other means. Geological applications are also being planned to assay ore samples for uranium as well as for gold, silver, and zinc.

In the Toronto laboratories, a unique application has been made of the Slowpoke reactor. Assay of trace elements in forensic science has made it possible to "fingerprint"

such materials as paint and hair and to help identify them in the courtroom.

Experience with other reactors of this type is that they become very heavily used. It is expected that numerous applications by many faculties will surface here now that the Slowpoke facilities are in working order.

## SECONDMENT AND EXCHANGE PROGRAMS

In any large institution efficiency is both fostered and threatened by the necessary categorization of the tasks and responsibilities of the staff of the institution. Efficiency in a large organization to a great extent depends upon the staff knowing their responsibilities and functioning accordingly; inefficiency is often the result of the frustration felt by an individual who is too closely confined to one area or who has ceased to appreciate fully the context within which he or she is working.

Large institutions like the University or the government, with their attendant bureaucracies, are often accused of becoming disassociated from the larger society. Whether or not the claim that the University or the government is somehow not dealing with the "real" world is true even in a small percentage of the cases where the charge is laid, it is probably true that the problem exists at least potentially for the staff of any institution. Over the years a number of ways of dealing with the situation have been developed, but certainly allowing individuals to see how another system functions, letting them cope with new problems, and allowing them to see new solutions in action is an excellent response to the problem.

The two programs listed below, the Secondment Program and the Exchange Program, being carried out between Alberta Education and the University's Faculty of Education, clearly offer the staff of both organizations the opportunity for growth. Dean Worth's rationale for the programs is simple and sound: "These programs offer us an avenue for staff development, and they also allow us to utilize professional expertise from outside the University which might otherwise be unavailable to us."

Further information about these two programs is available from the Faculty of Education.

### Secondment Program

#### Purpose

1. To foster good working relationships between Alberta Education and the University's Faculty of Education.
2. To widen the knowledge, experience, and skills of employees in both Alberta Education and the Faculty of Education.

### Participants

1. Individuals with valid teaching certificates employed by the University of Alberta, Faculty of Education.
2. Certificated Education Consultants employed by Alberta Education who are allocated to the management classification plan.
3. Participants under 1 and 2 above will normally have been employed by their respective employer for a period of not less than three years and have a minimum of five years teaching experience.

### Duration of secondment

The participants will normally be seconded for a period equal to a full winter session, spring session, or term. The participating employee is expected to return to his/her original position or one no less favourable following completion of the secondment to fulfill a return service commitment equal to the duration of the secondment.

### Selection of participants

1. The employer seeking the secondment will submit a description of the duties as well as the qualifications required to the other participating employer.
2. Participants for a position in Alberta Education will be selected from the employees of the Faculty of Education.
3. If the position is with Alberta Education, the Faculty of Education will submit the names of interested persons having, in the Faculty's view, the best combination of teaching, academic, and consultative skills, together with a recommendation regarding the most suitable person(s). Alberta Education may select the person to be seconded after consideration of all names submitted by the Faculty.
4. If the position is with the Faculty of Education, Alberta Education will submit the names of interested persons having in the Department's view, the best combination of teaching, academic, and consultative skills, together with a recommendation regarding the most suitable person. The Faculty may select the person to be seconded after consideration of all names submitted by the Department.

### Procedures

1. The sponsoring employer will pay gross salary together with the employer's portion of the subsidized fringe benefits of the seconded employee and will invoice the receiving employer accordingly.
2. Approved costs incurred by the employee while on secondment, will be borne by the receiving employer. Such costs would include travelling and subsistence expenses for a Faculty employee seconded to the Department or vice versa.
3. Following the completion of the

# FOLIO

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Jeanette Rothrock, Editor

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secondment, the receiving employer will complete a report on the performance of the seconded employee and the effectiveness of the secondment and advise the person accordingly.

4. An employee reserves the right to terminate his/her secondment provided he/she gives one month's advance notice to both the Faculty and Alberta Education. As a result of such a termination, the employee will return to a position with his/her employer until the expiry date of the secondment at which time the principle under Duration of Secondment will apply.

#### **Exchange Program**

##### *Purpose*

1. To facilitate the exchange of Department of Education managers with the professional staff of the Faculty of Education.
2. To provide for an enriching work experience for each of the participants and to make accessible to students and educators the expertise of leaders in various areas of Education.

##### *Nature of Exchange*

1. Participation will be only to the extent that there can be a one-for-one exchange of Education personnel between the Department and the Faculty.
2. The exchange will normally be for the period 1 September to the following 30 June.
3. The personnel exchange may not necessarily be between persons of similar kinds of expertise.

##### *Conditions of exchange*

1. Each jurisdiction will continue to pay the salary and fringe benefits of its employee; only authorized travelling and subsistence costs will be paid by the receiving jurisdiction.
2. Alberta Education personnel eligible for exchange shall be full-time permanent staff classified as managers and holders of an Alberta teaching certificate or who are eligible for one.
3. University personnel shall be full-time professorial staff who are holders of an Alberta teaching certificate or who are eligible for one.
4. The Deputy Minister and the Dean of the Faculty of Education must approve the names of those who are to be exchanged.

##### *Selection of participants*

1. Each jurisdiction will determine who among its staff is interested in an exchange.
2. Those expressing an interest must receive approval of his/her Dean/Deputy Minister.
3. Once approval has been obtained, the names and résumés of those interested will be forwarded to the receiving jurisdiction. Résumés should show:
  - i. work and teaching experience of the exchange candidate

- ii. educational background
- iii. significant accomplishments
- iv. area of interest and future work experience desired.

##### *Procedures*

1. The Deputy Minister and the Dean will acknowledge receipt of the names and résumés.
2. Having regard for the particular expertise required by each jurisdiction, the Deputy Minister and the Dean will negotiate the specific exchange.
3. Agreement having been reached in 2 above, the Deputy Minister or his designee will advise each University exchange person in writing and similarly the Dean or his designee will advise each Alberta Education exchange person in writing regarding specific duties, commencement date, conditions of exchange, and contact persons with each advising the other by copy of the offer letter.
4. Each exchange participant will advise appropriate administrative personnel so that mailing addresses, salary cheques, and other matters can be handled without undue interruption.

## **BUILDING AND PERSONNEL SECURITY**

*The following memorandum was circulated on 14 April to members of the Faculty of Arts by W.A. Blanchard, the Associate Dean. The suggestions made in the memorandum, however, should be considered by anyone who has reason to work on campus after regular hours.*

There have been several serious incidents of attacks on personnel on campus in the last little while, the most recent occurring this week in the Humanities Centre.

I have discussed this matter with Campus Security. They have offered to provide some increase in patrols in the most recently affected area but they cannot, with the limited staff available, provide anything like full security.

They have, however, made several suggestions about ways in which individuals can increase their own personal security. If individuals are working in one of our buildings outside of regular office hours, they should:

1. Avoid being isolated in an area. If at all possible they should arrange to have someone else working with them or in the general vicinity.
2. Before beginning work during off-hours, individuals should check the general security of the area in which they are working. Doors that are supposed to be locked should be checked to be sure that they are in fact locked.

3. Before beginning work they should call 5252 to alert Campus Security that they are working in a particular area. Campus Security will provide an extra check on the security of that area in a short period of time.
4. They should call Campus Security about fifteen or twenty minutes prior to leaving the office or study area. Campus Security will then provide an escort to the individual's car or bus or on-campus residence.

I don't want to be unduly alarming or suggest that we are faced with an epidemic of assaults. However, I do feel that we can reduce the incidence of such events if each individual were to take some precautions such as those suggested above.

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## **PEOPLE**

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- Terry Hull, Assistant Professor of Elementary Education, and Colleen Hiron, speech therapist for the Edmonton Public Schools, read a paper at the Alberta Vocational Centre on 29 March. The paper, "The teaching and correction of intonation, stress and rhythm to students of English as a second language," was presented to ESL teachers at the Centre.
- Abram G. Konrad, Coordinator of the Centre for the Study of Postsecondary Education, presented an invitational address on "Community College staff development and universities: stress and alternatives," at the annual meeting of the Council of Universities and Colleges on 9 April in Atlanta, Georgia.
- Alberta Culture has awarded a grant to Waterloo Music Co. Ltd. for the purpose of publishing a number of Violet Archer's piano compositions. She is the first Alberta composer to benefit by such a grant. Professor Archer will also be one of the two resident composers at the Banff School of Fine Arts this coming summer. She will teach a master class in composition and supervise rehearsals of her opera, *Sganarelle*, which will be performed in the Banff Festival of the Arts in August 1978.
- Josef Schier is a Visiting Professor of Experimental Surgery for three months at the Surgical-Medical Research Institute. Dr. Schier is Associate Professor of Surgery at Warsaw's Institute of Hematology.

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## **NOTICES**

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*Notices must reach the Editor by 9 a.m. the Thursday prior to publication. Written notification is necessary.*

#### **Duplication of Lab Manuals**

Printing Services would like to encourage all Faculties, Schools, and Departments

to submit manuals and classroom materials for reproduction as soon as possible. Such cooperation will assist in reproducing the materials and manuals for September and reduce the possibility of sub-contracting such work received after 1 July 1978 to commercial firms at a higher cost. All materials will be reproduced on a first come first served basis. For further information contact Printing Services, telephone 432-4246.

#### **Fall Kindergarten Program**

The Department of Elementary Education Kindergarten will be accepting applications for their fall program. For further information, telephone Carol Deutscher at 432-4606 between noon and 4:30 p.m. or 437-2882 in the evenings.

**Department of Economics—Telephone Numbers**  
Several telephone number changes will be made in the Department of Economics. Individuals encountering difficulties in contacting a member of the Department should consult the University Switchboard Operator for the correct number.

#### **French Language Summer School**

Any persons interested in instituting a French Language summer school in Edmonton this summer should telephone 433-8226.

#### **Cicero Club**

The Annual Dinner Meeting of the Cicero Club will be held on 2 May at 7 p.m. Members, former members, and friends are welcome, and the Dinner Meeting will be in the Papachase Room of the Faculty Club. The guest speaker will be Ron Collister, Editor of the *Edmonton Sun*. The cost of the evening will be \$11. Confirmation of attendance is requested before 28 April. For further information contact Joy Nicol, telephone 439-3593, or Leila Krishnan, telephone 436-4215.

#### **Duplicating Program Pricing Structure**

During the past year, a review by Printing Services of the photocopying/duplicating situation on campus has been continuing. The Duplicating Program Pricing Structure announced last year was intended to provide a copying service to the University at the most economical cost. To continue this policy, the pricing structure as of 1 May for 8½ x 11/twenty pound black ink/camera-ready copy is:

One side—25 cents per master plus one cent per impression;

Second side—25 cents per master plus ½ cent per impression.

It should be noted that for second-side duplicating under fifty copies, a 25 cent handling charge per master will be added. Collating and corner stapling is included in these prices for jobs containing up to

ten sheets (maximum twenty masters) and 1,500 copies. Service and turn-around is based on a three hour inplant processing time plus campus mail pick-up and delivery for the basic ten sheet/1,500 copies.

As an extension of printing services, the coordination of all copying requirements will be controlled by a group headed by Dan Mazeppa. This reprographics group monitors the campus copying needs and has information on most photocopying equipment. It is to the advantage of the University as a whole to deal with suppliers on an institutional basis rather than on a departmental basis. Administration of all contracts will be handled by the reprographics group in conjunction with Purchasing. Data is gathered on a monthly basis for each item of copying equipment on campus, and a consultation service is offered on request to anyone interested in reviewing their own copying situation. For further information contact Dan Mazeppa, telephone 432-4246.

#### **Nominations for NASA Executive**

Nominations for the 1978-79 Executive are now being sought. Nominations are required for the positions of President, Vice-President, Treasurer, Secretary, Grievance Committee Chairman, and Constitution and By-Laws Committee Chairman. Nominations for these positions must be submitted on the correct form by 4:30 p.m. on 12 May.

#### **Chamber Music Memberships**

The Edmonton Chamber Music Society will open its 1978-79 concert series with a sonata evening with violinist Lorand Fenyves and pianist Anton Kuerti on 27 September. Other concerts in the new season will be given by The Scottish Baroque Ensemble, the University of Alberta String Quartet, Huguette Tourangeau and Sandra Munn, the New Hungarian String Quartet, and the Borodin String Quartet. All concerts will be given on Wednesdays in the Students' Union Theatre, and admission will be by season membership only. Until 1 June, season memberships are available for \$23 regular and \$12 for students and senior citizens. For further information contact the Society, telephone 434-6970 or 439-6823.

#### **Building Entrances for Paraplegics**

The Department of Physical Plant has updated the available information on building entrances, washroom provisions, elevators, lunchrooms, and telephones for paraplegics. Faculties, departments, associations, and individuals should telephone 432-4261 in order to have copies of the information mailed to them. Copies can also be picked up at the reception desk on the fourth floor of the General Services Building.

#### **Fall Kindergarten Program**

The Department of Elementary Education Kindergarten will be accepting applications for their fall program. For further information, telephone Carol Deutscher at 432-4604 between noon and 4:30 p.m. or 437-2882 in the evenings.

#### **Travel Slide Presentations Required**

The International Student Office in cooperation with the Faculty of Extension offers a course on travel for senior citizens during the Spring Session. Those people who have travelled, have a slide presentation, and would be prepared to share their experiences with an enthusiastic audience should contact Marion Nicely, telephone 432-4145. An honorarium is offered.

#### **Alberta Anthology**

The Edmonton Branch of the Canadian Authors' Association has received a grant from Alberta Culture for the preparation of an anthology of fiction, non-fiction, and poetry to mark the seventy-fifth anniversary of the birth of the province. The volume will be published by Hurtig Publishers. Contributions of previously published material are being solicited from Alberta writers and should be sent to the following editors.

*Fiction* (short stories or extracts from novels)

Mrs. June Bhatia,

8734 117 Street

Edmonton, T6G 1B5

*Non-Fiction* (articles or extracts from longer works)

Dr. H. A. Dempsey

95 Holmwood Drive Avenue N.W.

Calgary, T2K 2G7

*Poetry* (short poems)

Mr. J.M. Moir

1305 Joliet Avenue S.W.

Calgary, T2T 1S3

To secure wide representation of Alberta writers, short selections are more likely to be accepted than long ones. The project is open to all present and former Alberta writers, but the content of submissions need not deal with Alberta. The name and address of the original publishers should be included with any submission, and payment will be made upon publication. Material may be sent in the form of tear sheets or photocopies, and should not be submitted later than 15 August. 1978.

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## **THIS WEEK AND NEXT**

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*Listings must reach the Editor by 9 a.m. Thursday one week prior to publication. Written notification is preferred.*

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### **27 APRIL, THURSDAY**

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#### **Princess Theatre**

7 p.m. and 9 p.m. *Treasure of Sierra Madre.*

Starring Humphrey Bogart and Walter Huston. For complete information, telephone 433-5785.

#### **Cinematheque 16**

7:30 p.m. *Modern Times* (United States, 1936). Directed by Charles Chaplin and starring Charles Chaplin and Paulette Goddard. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Edmonton Opera Association**

8 p.m. Verdi's *Attila*. Directed by Irving Guttman. Edmonton Symphony Orchestra conducted by Jacqueline Richard. Jubilee Auditorium. Tickets available at all Woodward's ticket outlets.

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### **28 APRIL, FRIDAY**

#### **Faculty Club**

*Downstairs.* Friday buffet: prime rib of beef, baked ham, salad bar, fresh vegetable, baked potato, dessert table, \$5.50.

*Upstairs.* Chef's special: minestrone soup, chef's salad, entrecote bercy, risoli potatoes, fresh vegetable, apple pie à la mode, \$7.95. Also regular dinner menu. Reservations required.

#### **Princess Theatre**

7 p.m. and 9 p.m. *Treasure of Sierra Madre*. Starring Humphrey Bogart and Walter Huston. For complete information, telephone 433-5785.

#### **Cinematheque 16**

7:30 p.m. *Modern Times* (United States, 1936). Directed by Charles Chaplin and starring Charles Chaplin and Paulette Goddard. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Edmonton Opera Association**

8 p.m. Verdi's *Attila*. Directed by Irving Guttman. Edmonton Symphony Orchestra conducted by Jacqueline Richard. Jubilee Auditorium. Tickets available at all Woodward's ticket outlets.

#### **Observatory Tours**

9 p.m. Observatory tours and observation of the night sky (weather permitting). Physics Building. Admission is free, but reservations are required. For further information and reservations, telephone 432-4201.

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### **29 APRIL, SATURDAY**

#### **Spring Fair and Rummage Sale**

9 a.m. The Annual Spring Fair and Rummage Sale sponsored by the Women's Committee of the Edmonton Symphony Society. Prince of Wales Armoury, 109 Avenue and 105 Street. Admission is 50 cents.

#### **Faculty Club**

*Downstairs.* Saturday buffet: sole bonne

femme, risi bisi, salad bar, fresh vegetable, dessert table, \$5.50.

*Upstairs.* Chef's special: melon boat, mimosa salad, curried shrimp, rice, fresh vegetable, dessert wagon, \$7.95. Also regular dinner menu. Reservations required.

#### **Princess Theatre**

7 p.m. and 9 p.m. *Treasure of Sierra Madre*. Starring Humphrey Bogart and Walter Huston. For complete information, telephone 433-5785.

#### **Edmonton Opera Association**

8 p.m. Verdi's *Attila*. Directed by Irving Guttman. Edmonton Symphony Orchestra conducted by Jacqueline Richard. Jubilee Auditorium. Tickets available from all Woodward's ticket outlets.

#### **South Side Folk Club**

8 p.m. Duck Donald and Cathy Fink perform at the South Side Folk Club Concert. The Orange Hall, 84 Avenue and 104 Street. Admission is \$2.50 for members and \$3 for non-members. For further information, telephone 475-1042.

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### **30 APRIL, SUNDAY**

#### **Cinematheque 16**

2 p.m. *Scenes from a Marriage/Scener ur ett Altenskap* (Sweden, 1973). Directed by Ingmar Bergman and starring Liv Ullmann and Erland Josephson. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Princess Theatre**

7 p.m. and 9 p.m. *How Green Was My Valley*. Starring Walter Pidgeon and Maureen O'Hara. For complete information, telephone 433-5785.

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### **1 MAY, MONDAY**

#### **Princess Theatre**

7 p.m. and 9 p.m. *How Green Was My Valley*. Starring Walter Pidgeon and Maureen O'Hara. For complete information, telephone 433-5785.

#### **Edmonton Opera Association**

8 p.m. Verdi's *Attila*. Directed by Irving Guttman. Edmonton Symphony Orchestra conducted by Jacqueline Richard. Jubilee Auditorium. Tickets available from all Woodward's ticket outlets.

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### **2 MAY, TUESDAY**

#### **Princess Theatre**

7 p.m. and 9 p.m. *How Green Was My Valley*. Starring Walter Pidgeon and Maureen O'Hara. For complete information, telephone 433-5785.

#### **Classical Guitar Society**

8:30 p.m. The Classical Guitar Society presents Manuel Barrauaco in concert. Admission is \$3 for members and \$5 for

non-members. Tickets available at the Bay, Woodward's, and HUB box offices, and at the door.

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### **3 MAY, WEDNESDAY**

#### **Citadel/National Film Theatre**

8 p.m. *Farewell My Lovely* (United States, 1945). Starring Robert Mitchum. Zeidler Hall. For further information contact the Citadel Box Office, telephone 425-1820.

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### **4 MAY, THURSDAY**

#### **Cinematheque 16**

7:30 p.m. *Scenes from a Marriage/Scener ur ett Altenskap* (Sweden, 1973). Directed by Ingmar Bergman and starring Liv Ullmann and Erland Josephson. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Citadel/National Film Theatre**

8 p.m. *Amarcord* (Italy, 1974). Directed by Federico Fellini. Zeidler Hall. For further information contact the Citadel Box Office, telephone 425-1820.

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### **5 MAY, FRIDAY**

#### **Faculty Club**

*Downstairs.* Buffet: prime rib of beef, baked ham, potato, fresh vegetable, salad bar, dessert table, \$5.50.

*Upstairs.* Chef's special: chicken salad mayonnaise, scallops St. Jacques, rice, fresh vegetable, dessert wagon, \$7.95. Also lobster thermidor, \$15, and regular dinner menu. Reservations required.

#### **Cinematheque 16**

7:30 p.m. *Scenes from a Marriage/Scener ur ett Altenskap* (Sweden, 1973). Directed by Ingmar Bergman and starring Liv Ullmann and Erland Josephson. Downstairs, Edmonton Art Gallery. Admission is \$2 for members and \$2.50 for non-members. Tickets available at the door.

#### **Citadel/National Film Theatre**

8 p.m. *Farewell My Lovely* (United States, 1945). Starring Robert Mitchum. Zeidler Hall. For further information contact the Citadel Box Office, telephone 425-1820.

#### **Edmonton Symphony Orchestra**

8:30 p.m. The Edmonton Symphony Orchestra performs with Leonard Rose, cellist. Tickets and further information available at the Bay Box Office and the HUB Box Office.

#### **Observatory Tours**

9 p.m. Observatory tours and observations of the night sky (weather permitting). Physics Building. Admission is free but reservations are required. For further information and reservations, telephone 432-4201.

# May 1978

April

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sunday

7

14

21

28

monday

1

- Summer hours begin
- Last day for receiving applications for admission to BFA (Art and Design), MBA, and Rehabilitation programs
- Last day for students in the Faculty of Education to pre-register for courses in the Evening Credit Program (Off-Campus)

8

15

- Last day for applications to the BSc in Nursing (Basic and Post-Basic programs)
- Last day for applications to the Faculty of Engineering (apart from first year applications)

22

- *Victoria Day; University buildings closed*

29

- 2 p.m. Meeting of the General Faculties Council

tuesday

2

- 9:30 a.m. Meeting of Campus Development Committee

9

- *Charter Day*
- 4:45 p.m. Meeting of the departmental representatives of the Non-Academic Staff Association
- 7:30 p.m. Meeting of the Council of the Graduate Students' Association

16

- 9:30 a.m. Meeting of the Campus Development Committee

23

30

- Spring Convocation begins

wednesday

3

10

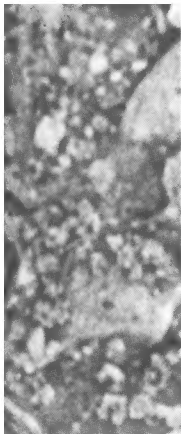
- Notice Spring Convocation by 12 noon

17

- 2:30 p.m. Council

24

31



## thursday

**4**

- 9 a.m. Meeting of the Academic Development Committee

**11**

- 9 a.m. Meeting of the Academic Development Committee
- 2 p.m. Meeting of the University Planning Committee

**18**

- 9 a.m. Meeting of the Academic Development Committee

**25**

- 9 a.m. Meeting of the Academic Development Committee
- 2 p.m. Meeting of the University Planning Committee

## friday

**5**

- 9 a.m. Meeting of the Board of Governors

**12**

**19**

- 2 p.m. Meeting of the Council on Graduate Studies and Research

**26**

## saturday

**6**

**13**

**20**

**27**

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n must be given

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## 6 MAY, SATURDAY

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### Faculty Club

*Downstairs.* Soup tureen: New England clam chowder, minestrone, salad bar, dessert table.

*Upstairs.* Chef's special: boula boula, romaine salad, chicken cordon bleu, green noodles, fresh vegetable, dessert wagon, \$7.95. Also lobster thermidor, \$15. Entertainment: Collection.

### Edmonton Symphony Orchestra

8:30 p.m. The Edmonton Symphony Orchestra performs with Leonard Rose, cellist. Tickets and further information available from the Bay Box Office and the HUB Box Office.

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## EXHIBITIONS AND PLAYS

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### Students' Union Art Gallery

*To 2 May.* An exhibition of the sculpture by Isla Burns.

### University Art Gallery and Museum

*Continuing.* An exhibition of the final presentations from graduate students of the Department of Art and Design.

*To 30 April.* "Hygiene of art: tearing up works of art," an exhibition of over three hundred original works of art collected from all over the world by Hervé Fisher.

### Edmonton Art Gallery

*Continuing.* "Pastoral Pleasures," an exhibition of over forty works from the Gallery's permanent collection.

*Continuing.* "Recent Accessions," an exhibition of works acquired by the Gallery in 1977.

*Continuing.* "Eugene Atget," an exhibition of photographs by a pioneer of documentary photography.

*From 5 May.* "New Works in Clay," an exhibition of ceramics.

### Rice Gallery

*To 29 April.* An exhibition of the paintings of Madame Ilda Lubané.

### Graphica

*To 29 April.* An exhibition of the drawings of Gloria Cantwell.

### Latitude 53

*To 27 April.* An exhibition of recent sculpture by Lilian Klimek.

### Queen Elizabeth Planetarium

*Continuing.* "Impact," a show exploring the causes and consequences of the violent bombardment of rocky debris on the newly formed planets and satellites of our solar system four billion years ago. For ticket information and show times, contact the Planetarium, telephone 455-0119.

### Theatre Francais d'Edmonton

*To 29 April.* Robert Thomas's *Double Jeu*. Faculté Saint-Jean, 8406 91 Street.

Directed by Eve Marie, assisted by Chantal Taylor. Ticket information and show times available from the Carrefours North and South and from the Théâtre Français Office, telephone 469-0829.

### Citadel Theatre

*Continuing.* *Dames at Sea*. Directed and choreographed by Diane Nyland with musical direction by Peter Yakimovich. Shoctor Theatre. For ticket information and show times contact the Citadel Box Office, telephone 425-1820.

### Theatre 3

*To 29 April.* Ferenc Molnar's *The Guardsman*. Directed by Robert Graham. For ticket information and show times contact the Theatre 3 Box Office, telephone 426-6870.

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## LECTURES AND SEMINARS

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### 27 April, Thursday

#### Unity Through Communication Inside Quebec

8 p.m. "Business in Quebec," with speaker Frank Brady, General Counsel, Dominion Textiles Ltd. Provincial Museum.

### 3 May, Wednesday

#### Animal Science Lecture

4 p.m. "The utilization of resources in meat production from non-ruminants," with speaker V.R. Fowler, Head of Non-Ruminant Research in Applied Nutrition at the Rowett Research Institute. TL-2 Tory Building.

### 4 May, Thursday

#### Biochemistry Seminar

12:30 p.m. "Enzyme catalyzed phosphoral transfer: can stereochemistry end the confusion?" with speaker Jeremy Knowles of Harvard University. 227 Medical Sciences Building.

#### Unity Through Communication Inside Quebec

8 p.m. "Tourism in Quebec," with speaker Claire Kirkland-Casgrain, Vice-President, Minimum Wage Commission. Provincial Museum.

### 5 May, Friday

#### Art Gallery Lecture

2 p.m. "The preparation of the exhibition 'New Works in Clay,'" with speaker Margie Hugto, Guest Curator at the Edmonton Art Gallery. Edmonton Art Gallery.

#### Animal Science Lecture

4 p.m. "Concepts of efficiency in animal production," with speaker V.R. Fowler, Head of Non-Ruminant Research in Applied Nutrition at the Rowett Research Institute. TL-2 Tory Building.

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## NON-CREDIT COURSES

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### PUPPET WORKSHOPS

The Edmonton Art Gallery is offering three separate Puppet Workshops during April and May. The workshop for children from eight to ten years old, "Making and Doing," will be offered on 29 April, 6, and 13 May from 3 p.m. to 4:30 p.m. Enrolment is limited to twenty children and the fee is \$10.

The second workshop, "Puppets for Pre-schoolers," will be held on 2 May from 7:30 p.m. to 9:30 p.m. The evening is designed for people working with children from two to five years old, and the fee is \$6.

The third workshop, "Puppets for your Kids," will be held on 9 May from 7:30 p.m. to 9:30 p.m. This workshop is designed to help children up to the age of twelve to make and use puppets in the home. The fee is \$6.

For further information regarding the puppet workshops, telephone 429-6781.

### PEDIATRICS COURSE

A comprehensive course in pediatrics is being offered through the Division of Continuing Medical Education on 3, 4, and 5 May. The course, "Current Concepts in Pediatrics for General Practitioners," will cover over forty-five topics. Among the topics to be covered will be food additives, effects of changing nutritional habits on the health of native children, changes in the content and composition of commercial infant foods, and drugs in pregnancy. The course is approved for eighteen College of Family Physician study credits. The course fee is \$85. Registration forms are available from: The Division of Continuing Medical Education, 12-103 Clinical Sciences Building, University of Alberta, Edmonton T6G 2G3.

### ADMINISTRATIVE MANAGEMENT SEMINARS

The Administrative Management Society will present three half-day seminars on 22 and 23 June. The three sessions are "Crimes against business," "Working With Women in Business," and "Communication and Delegation." The seminars will be held in the Edmonton Inn Hotel Ballroom. Further information and registration forms are available from: Mrs. A. Fester, 10210 117 Street, Edmonton T5K 1X6.

### COMPUTING SERVICES CLIENT TRAINING SESSIONS

The client training sessions listed below all take place in 315 General Services Building. The prerequisite for all sessions is the "Introduction to SPIRES" workshop, and the instructor will be Ron Senda. In each session the class limit is seventeen, and the minimum enrollment is six.

*Title:* SPIRES File Definition. *Description:* This course will familiarize the user with

the file definition process and terminology. The user will be able to write simple file definitions. *Date:* 1 and 8 May. *Time:* 9 a.m. to 12 noon. *Fee:* \$15. *Text required:* SPIRES/370 File Definitions.

*Title:* SPIRES Formats. *Description:* This course will familiarize the user with processes and terminology used in the SPIRES Formats manual. The user will be able to write simple output formats. *Date:* 12 May. *Time:* 9 a.m. to 12 noon. *Fee:* \$10. *Text required:* SPIRES/370 File Definitions.

*Title:* SPIRES Protocols. *Description:* This course is meant to introduce the student to the Protocols facility and the associated manual. Items to be covered are variables and their use, issuing SPIRES commands, prompting the terminal, and examples of Protocol usage. The concept of compiled Protocols will also be covered. *Date:* 19 May. *Time:* 9 a.m. to 12 noon. *Fee:* \$10. *Text required:* None.

*Title:* SPIRES Data Base Management. *Description:* This course will explain and give examples of Global FOR and Partial Processing FOR. This will enable the file owner to maintain the file with more powerful commands. *Date:* 26 May. *Time:* 9 a.m. to 12 noon. *Fee:* \$10. *Text required:* None.

*The courses listed below are offered under the auspices of the Faculty of Extension. Registrations may be made and information concerning the instructors and contents of the courses may be acquired at 228 Corbett Hall or by telephoning the number at the end of each listing.*

**PLANNING STRATEGIES**

A seminar on planning strategies will be held on 12 May. The purpose of the seminar is to help managers understand the planning process, how to develop organizational strategies, and how to implement these ideas throughout an organization. *Fee:* \$100. *Telephone:* 432-5066 or 432-5067.

**INTERPRETING THE WOODS AND FIELDS: SPRING AGAIN**

On 6 and 7 May, a course on the interpretation and appreciation of the outdoors will be offered. The program has been designed to be of practical value for teachers and leaders who wish to plan and organize outdoor experiences for children. *Fee:* \$18. *Telephone:* 432-5044 or 432-3116. *Registration deadline:* 3 May.

**SUCCESSFUL RESTRUCTURING**

A Faculty of Extension course, "Successful Restructuring: a Course for Singled Adults," will be offered for seven consecutive Tuesdays, beginning on 2 May. The course is designed to be of use to individuals who are in the process of restructuring their lives as a result of being separated, divorced, or widowed. Class hours are from 6:30 p.m.

to 9:30 p.m. *Fee:* \$40. *Telephone:* 432-5069.

**ZERO BASE BUDGETING**

The concepts, techniques, and basic procedures in zero base budgeting will be explained in a two-day seminar to be held on 3 and 4 May. The seminar should be of interest to comptrollers, financial executives, and management accountants. *Fee:* \$40. *Telephone:* 432-5069.

**SUCCESSFUL PARENTING**

The weekend seminar "Successful Parenting Through Responsible Involvement," to be held on 5 and 6 May, will focus on methods which can be used by parents to help their child to solve his own problems, to "discipline with a hug rather than a hand," and to talk together in ways that build mutual trust. *Fee:* \$30 per person and \$50 per couple. *Telephone:* 432-5069.

**WATER WELL DRILLING**

Water well drilling, completion, and testing will be discussed in a week long course to be offered from 1 to 5 May. Major topics will include origin, occurrence, and movement of groundwater, well drilling methods, performance tests, groundwater law, and well design and construction. *Fee:* \$150. *Telephone:* 432-5532.

**THE PROFESSIONAL SALESPERSON**

Principles of effective salesmanship will be examined in a one-day seminar on 8 May. The course is intended for mature salespersons who are able to handle concepts relating to successful selling. The course will incorporate managerial skills into the sales function. *Registration deadline:* 1 May. *Fee:* \$65.

**RESEARCH GRANTS**

This list of deadline dates for submissions to granting agencies for research funds, exchange programs, and travel grants is published every month in *Folio*. In order to allow sufficient time for processing, all applications should reach the Research Grants and Contracts Office at least ten days before the deadline date. Where other University resources are involved, the time requirement may be much longer than ten days and such applications should therefore be submitted well in advance. An extra copy of the application should be provided for the Research Grants and Contracts Office.

Further information may be obtained by consulting the *Calendar of Granting Agencies for Research Funds, Exchange Programs, and Travel Grants*, which is available in the offices of Deans, Directors of Institutes and Centres, and Department Chairmen, or by telephoning the Research Grants and Contracts Office, 432-5360. Note: Although the Calendar is updated on a continuous basis, the following information could be subject to change without notice. If staff members have advance information on forthcoming changes, the Research Grants and Contracts Office would appreciate being advised. *Code:* (R) Research funds; (E) Exchange programs; (T) Travel grants.

<i>Calendar source number</i>	<i>Code</i>	<i>Granting agency</i>	<i>Deadline date</i>
61	R	Canada Council —Explorations	1 June 1 Dec. 1 Mar.
420	R	U.S. Department of Health, Education and Welfare	
		Renewals	1 June 1 Oct. 1 Feb.
		New and Supplemental	1 July 1 Nov. 1 Mar.

**POSITIONS VACANT**

**ACADEMIC POSITIONS**

**Administrative Officer**  
An Administrative Officer will be appointed in the Department of Zoology from 15 June 1978. Applications are invited from females and males. Duties will include administration of the operating budget, supervision of department support staff, and liaison with the University administration, with responsibility to the Chairman of the Department. Familiarity with bookkeeping procedures and a University degree are required. Previous experience in business administration and personnel supervision is highly desirable. Interested persons should submit a letter of application and résumé to Dr. J.R. Nursall, Chairman, Department of Zoology, 312 BioSciences Centre, T6G 2E9.

**NON-ACADEMIC POSITIONS**

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 21 April.

Sales Clerk I (\$645-\$698)—Bookstore (two positions)  
Clerk Typist I (\$645-\$698)—Housing and Food Services  
Clerk Typist II (\$645-\$753)—Bookstore; Vehicle Pool Division, Physical Plant; Political Science  
Clerk Steno II (\$645-\$780)—Obstetrics and Gynaecology; Canadian Institute of Ukrainian Studies; Dentistry  
Clerk Typist III (\$698-\$845)—Graphics Division, Technical Services; Computing Science; Community Dentistry; Soil Science  
Senior Clerk (\$698-\$845)—Personnel Services and Staff Relations  
Admissions Record Trainee (\$753-\$916)—Office of the Registrar  
Programmable Typewriter Operator (\$753-\$916)—Personnel Services and Staff Relations  
Data Entry Operator II (\$780-\$945)—Office of Administrative Systems  
Secretary (\$813-\$995)—Computing Science  
Laboratory Assistant (\$3/hour, part-time, trust)—Genetics  
Bacteriology Technologist I/II (\$477-\$669, half-time, term, trust)—Medical Bacteriology  
Computer Assistant I (\$645-\$780)—Computing Services  
Laboratory Assistant II/III (\$671-\$916, trust)—Anatomy  
Building Services Worker II (\$753-\$916)—Housing and Food Services  
Technical Assistant (\$780-\$954)—Technical Services  
Maintenance Man I (\$780-\$954)—Housing and Food Services  
Chemical Technician I (\$845-\$1,036, trust, term)—Animal Science

Chemical Technician I (\$845-\$1,036)—Soil Science  
 Technician I (\$845-\$1,036, trust)—Mechanical  
 Engineering; Immunology  
 Technician I (\$845-\$1,036, term)—Mechanical  
 Engineering  
 Technician I (\$845-\$1,036, term, trust)—Food Science  
 Curriculum Technician I (\$845-\$1,036, trust)—Legal  
 Resource Centre, Extension  
 Technician I/II (\$845-\$1,036, trust)—Pharmacology  
 Electronics Technician I (\$878-\$1,080)—Technical  
 Services  
 Food Services Worker IV (\$878-\$1,080)—Housing  
 and Food Services  
 Maintenance Man II (\$916-\$1,127)—Housing and  
 Food Services  
 Technician II (\$954-\$1,175, trust)—Physiology  
 Technologist I (\$954-\$1,175, trust, term)—Pediatrics  
 Technician II/III (\$954-\$1,337)—Geology  
 Engineering Technologist III (\$1,175-\$1,458)—  
 Physical Plant, Engineering  
 Carpenter (\$1,280-\$1,590)—Housing and Food Services

## ADVERTISEMENTS

*All advertisements must be received by 9 a.m. the Friday prior to publication. Rate is 15 cents per word for the first week and 5 cents per word for subsequent weeks ordered before the next deadline. Minimum charge is \$1. Ads must be paid in advance and are accepted at the discretion of the Editor. We regret that no ads can be taken over the telephone. For order forms or further information, telephone 432-4991.*

### Accommodations available

Renting—4 July - 22 August—fully furnished apartment; one bedroom, den, library. \$628 for entire period; \$100 damage deposit—payment in advance.  
 Twenty minutes from University. 484-8224 after four.  
 For sale by owner—condominium. Quick, easy access to University and downtown. Two bedrooms, two baths, air conditioned; six major appliances plus wall units. All amenities. Underground, heated parking. By appointment only. 488-8542.  
 For sale—321 acres, or part. Unspoiled nature, conifers, wildlife from moose to mouse. Lake, creek, ponds, rolling landscape. Tall forest, some tame hay. 55 miles west of city; 53 on paved highway. Owner. 432-7145, evenings.  
 For rent—1 July 1978 - 31 July 1979. Malmo four-bedroom split-level, furnished, 1½ baths, rumpus room, two fireplaces. Major bus routes one block; near all schools; two miles to campus. 435-5433.  
 For rent during Summer Session—four-bedroom bungalow (Southgate). Fully furnished. Direct bus to University. \$500 monthly plus damage deposit. 434-3896, p.m.  
 For rent—three-bedroom furnished bungalow. Greenfields. Month of August. 434-8072.  
 For rent—three-bedroom bungalow. Finished basement with fireplace, study, bedroom, bath. Double garage. Furnished or semi-furnished. Malmo. \$550 monthly. One-year lease, August 1978. 435-5415.  
 For rent—10 June - 15 August (dates negotiable). Attractive, fully furnished three-bedroom house in Garneau. Dishwasher, washing machine. Well treed; sun porch. \$350 monthly. Damage deposit. 432-0864.  
 Private sale—Petrolia bi-level, fully developed, four bedrooms, two bathrooms, double garage. Three-minute walk to University bus routes. \$83,500. 435-7825.  
 For sale—Aspen Gardens. Attractive three-bedroom

bungalow; developed downstairs, double garage. Ravine area. Must sell. Blue Quill—quiet area. Three-bedroom deluxe, immaculate split-level, superior landscaped lot, family room, double attached garage. July possession. Mrs. Pat Anderson, Royal Trust, 435-4869; 434-4460 (residence).  
 For rent—one year from July. Four bedrooms, two bathrooms, fireplace, deck, double garage. Lendrum. 434-0517; 432-3579.  
 For sale—New up/down duplex, 2,500 square feet. Ten percent capital cost allowance. Close to University. Immediate sale and possession. This plus other income properties. Elizabeth, Royal Trust, 439-3725; 435-4869, business.  
 For rent—Brand new three-bedroom house near schools, shops. Carpets, three appliances. From 1 June. \$500 monthly. 434-1222 evenings; 432-5430 days.  
 For rent—1 July for one year. Belgravia. Furnished four-bedroom house, 2½ bathrooms, large garage. References and damage deposit required. \$600 monthly. 436-0577.  
 For rent—Fully furnished three-bedroom house in north Windsor Park; study, family room, game room, fireplace, garage, large fenced yard. From 15 August 1978 through 15 August 1979. \$600 monthly. 439-3509.  
 For rent—Late August 1978 to 30 June 1979. Professor's home. One block campus. Fully furnished. Three bedrooms. Suit visiting professor. 439-4890.  
 For sale—Immaculate home. Original owner. Southside. This home is in beautiful condition, has three bedrooms, basement development, double garage, and is surrounded by mature birch and spruce trees. For showing, telephone Steve Tomlinuk, 436-2988, or Deanna Larson, 434-4344, Spencer Real Estate Ltd. Business, 436-5250.  
 For sale—Family and/or revenue property in Parkallen. Two-bedroom bungalow. Self-contained, one-bedroom suite in basement. Hardwood floors, all appliances, nicely decorated, large fenced yard. Corner lot. Direct bus to University. \$75,000. 435-5776 after 6 p.m.  
 For sale—"Coach Home" style condominium, ground level, patio, grassed enclosure, open fireplace, in Surrey Gardens. \$53,900. Reina Proudfoot, Royal Trust. 436-2566, 435-4869.  
 For sale—Custom built McConnell two-storey with a view. In Laurier Heights. Five spacious bedrooms, 2½ baths, den, attached double garage. Large treed lot. Excellent condition. Reina Proudfoot. Royal Trust. 435-4869, 436-2556 for appointment.  
 For sale—Immediate walking distance to University. 10924 79 Avenue. Elizabeth, Royal Trust; 439-3727, or business, 435-4689.  
 For rent—One-bedroom furnished apartment. Garneau, July, August. \$280 month. 439-9497, evenings.  
 For rent—1 May, one-bedroom basement suite. \$225 including utilities. 10831 85 Avenue. 435-7735.  
 For sale—Immaculate condominium in convenient southside location. Two bedrooms, super kitchen with breakfast nook and ample cupboard space, large dining room, extra storage space. Denise Rout, 432-7398, 436-5250, Spencer Real Estate.  
 Sublet—three-bedroom furnished, carpeted townhouse near University; minutes to downtown. Patio, garden, finished basement. \$420 monthly (negotiable). May - August. 436-8503.  
 For sale by owner—Belgravia semi-bungalow; 1,260 square feet, three bedrooms, fully carpeted, immaculate, attractive interior. Very nicely landscaped with exceptional backyard; single heated garage. \$81,900. Principals only. 435-6164, evenings.

For sale—bungalow; \$72,500; Franklin fireplace; quiet park-like location in Parkview. Liz Crockford, Spencer Real Estate, 436-5250; 434-0555, residence.  
 For sale—2,300-square-foot executive home; huge pie-shaped lot; double front-drive garage; excellent southwest location; ten minutes to University. Asking \$139,900. Liz Crockford, 434-0555; 436-5250; 426-5880, page 894. Spencer Real Estate.  
 For rent—new three-bedroom house; twenty minutes to University. \$650 for summer session. Also available for 1978-1979 winter session: \$450 monthly. Telephone 474-5952 evenings, or write 4104 122 Avenue, Edmonton.  
 For sale—Lansdowne; three bedrooms, family room, two wood burning fireplaces, beautifully decorated and landscaped; two garages. Liz Crockford, Spencer Real Estate, 436-5250; 434-0555, residence; 426-5880, page 894.  
 For sale—three-bedroom townhouse south of Southgate; 1,286 square feet, 1½ baths, full basement, five appliances. \$55,000. Good financing available. 432-5876; 436-6032.  
 For rent—large luxury two-bedroom condominium apartment within walking distance of University. Direct river view. \$490 monthly. No pets. 1 July possession. 435-6686.  
 For rent—Grandview Heights. 1 June 1978 to 1 August 1979. Two-storey, four-five bedrooms, 2½ baths; on quiet crescent location facing park. Furniture optional. No pets. References. \$795 monthly. 434-3942.  
 For sale—view property in the west end. Executive five-bedroom home in mint condition. For viewing, telephone Resi Richter 483-9432; 455-4135. Weber Bros.  
 For rent—furnished three-bedroom home in Duggan. 1 July - 31 August. Telephone 434-7937.  
 For sale—Westmount three-bedroom bungalow. Live on the main floor and rent out the basement. Near all amenities. Telephone Resi Richter, 483-9432; 455-4135. Weber Bros.  
 For rent—lovely older furnished home; five minutes University via Groat; three bedrooms, fireplace, butler's pantry. 15 August for one year; \$600 monthly; damage deposit. 432-5026; after seven: 436-3659.  
 For sale by owner—1,756-square-foot home in executive Blue Quill. Fully carpeted, four-bedroom split level home includes 2½ baths, main-floor family room with tyndalstone fireplace and patio doors, bright, airy kitchen, spacious living and dining room, and impressive entrance foyer. This beautiful home also has a double garage and is located on a large landscaped lot. Telephone 436-3617 or 425-0110, extension 205.  
 For rent—1 June - 5 August. Four-bedroom family home near Southgate; \$400 monthly; references, damage deposit. Telephone 435-3047.  
 For sale—Belgravia. Three-bedroom split level on quiet tree-lined street, 2½ blocks from campus. Over 2,000 square feet developed area; fireplace in family room, ground-floor laundry room, patio doors from dining room to secluded wooden sundeck with barbecue. Beautiful fenced yard with magnificent flowering trees and mature spruce; attached front-drive garage. June possession. No agents. 436-4953.  
 For sale—executive four-bedroom split in Ottewell; wool carpeting, family room with fireplace; two bay windows, intercom, central vacuum system; close to all amenities. Telephone Ronn Rence at 465-9602. Century 21 Elliott McGillis Realty.  
 For sale—excellent 1,485-square-foot bungalow located on three acres of high rolling land, ten miles east. Family room, fireplace, double garage are samples of features. View of city lights at night. For appointment, telephone Ronn Bence, 465-9602. Century 21 Elliott McGillis Realty.

Renting—furnished condominium. Two bedrooms, study. Twenty minutes to campus. No pets. July and August. 432-6316 or 462-0787.

#### Accommodation wanted

Going on sabbatical? Quiet professional family wish to lease (for one year) and care for your home beginning July 1978. 415-322-3688 collect (evenings).

Law professor (married, no children) requires accommodation for coming academic year. Please write: E.R. Meehan, 1835 Lakeshore Drive, Dorval Montreal, H9S 2E9. References and damage deposit supplied upon request.

Mature professional theatre couple, no children, require apartment or house, July/August to April. Ideally, sabbatical or sublet. Highest references. Gary Dahms, Head of Wardrobe, Citadel Theatre. 426-4811.

Exchange Victoria home for home or apartment in Edmonton 1 June - 31 August 1978. References required. Contact: Hotke, 4517 Cheeseman Road, Victoria, B.C., V8Z 5M9. 604-479-8012.

Summer session lecturer, graduate student spouse, wish to rent from 1 July 1978 to 31 August 1979 either fully-furnished one-two bedroom apartment or unfurnished two-three bedroom house near University. No children, no pets, non-smokers. References, damage deposit provided. Write: D. Sinkwich, Box 472, Valleyview, Alberta T0H 3N0, or telephone 524-3159.

Want to rent—three- or four-bedroom unfurnished home (south west location). Excellent references. Please telephone Liz Crockford, 434-0555; 436-5250.

Residence required for purchase in Windsor Park/Belgravia, or condominium in Riverbend. Principals. Telephone 432-3237 days; or 434-4467 evenings.

Visiting professor requires house or apartment (completely furnished) for self and wife only. July and August. Please telephone M. Folton, 432-3726 (Edmonton).

#### Automobiles and accessories

Quality tune-ups, repairs, emergency service. Used cars. Miketon's Automotive. 453-1712; 489-7041.

1974 MGB. Premium condition. Telephone 452-7442. Must sell—1975 Toyota Helix pick-up. Excellent condition; 15,500 miles. Telephone 434-8801.

1973 Volkswagen beetle; 62,000 miles; excellent condition. Offers. Telephone 435-0780.

1974 Duster. Automatic, six-cylinder, air conditioned, 29,000 miles; mint condition. \$2,500. 434-6142; 432-5464.

1974 Volkswagen beetle, excellent condition; 29,600 miles; new tires, gas heater. 433-5067.

1968 Dodge Satellite station wagon 318; good condition. \$450 or best offer. 433-7740.

1974 Astre GT package. Standard shift, 25,000 miles; excellent condition. Offers. Telephone 478-4734, evenings.

#### Goods and services

Imagine owning some Medieval imagery. Selling elegantly framed brass rubbings from England. Shown by appointment. 434-9784.

Expert typing—theses, etc. Telephone 455-0641.

Experienced typist. Variety of type styles, symbols. Quality work. 435-5006; 435-4407.

Seabri Sailboats—Seaspray (15-foot catamaran) and Kolibri (12-foot monohull). 11408 58 Avenue. 434-3309.

Custom dressmaking and designing. European training. No patterns required. Telephone Jacqueline, 433-4870.

PB Guest Ranch—mountain wilderness holidays for families or singles. Accommodation in large sixteen-room lodge; home cooking. Group activities

(seminars, workshops, etc.). Separate summer children's camp. Telephone 452-0710. Box 542, Hinton, Alberta. T0E 1B0.

Towne Pizza and Steak House. Open Sunday to Thursday, 11 a.m. - 2 a.m.; Friday and Saturday, 11 a.m. - 3 a.m. Proprietors: John Garanis; Peter Panagoupolis. 483-0839; 483-0838. 15525 Stony Plain Road.

Upright piano. Excellent condition. Ideal for beginners. Telephone 434-9784.

Home cleaning services; weekly, monthly, yearly basis. Also windows, steam-clean carpets, walls. Fully bonded. Very reliable 24-hour service. 474-7268.

Renovations, custom building. Residential and commercial. For estimates telephone DMG Renovations Division, 425-0010.

Books—old and out-of-print, bought and sold. Norwood Books, 11302 95 Street. 474-4446. Ken Jackson, proprietor.

Wanted—TVs, working or not. 478-4241. Leave recorded message.

Professionals will do graphs and drawings for theses and publications. Reasonable rates. 439-0922 after 5.

Wanted—driver to take our car to Montreal, or nearest point, in May. 436-8503 evenings.

Student Lawn Care—power raking, lawn mowing, low prices. Eric, 475-3026; Dave, 428-7084.

The staff of Incredible Edibles, HUB Mall, wish our patrons a very full and healthy summer.

Thirty-six-inch LeClerc Artisan floor loom.

Excellent condition. Asking \$230. Telephone 434-9259 after 5 p.m.

It is that time of year again! Interested in having your garden tilled or the grass cut and power raked? Telephone Jerry, 439-3531.

Office space for lease in growing community: downtown Stony Plain. Suitable for professional, or small retail business such as: dentist, accountant, lawyer, real estate, wall or floor covering, sports shop. Pearl Nielsen, 963-2724.

Royal Glenora Club share, \$230 or nearest offer. Taylor. 432-5627, 436-7941.

Reduced fare to Hong Kong, Tokyo, Singapore, Manila. 475-1109.

This summer go all the way with Canadian Camping Tours. Three-week camping holidays by bus to the Northwest Territories, the Yukon, Alaska, and the Maritimes, plus two weeks hiking and canoeing the Chilkoot Pass and the Yukon River. Prices from \$550 include meals and equipment. Write to Canadian Camping Tours, 250e One Palliser Square, Calgary T2G 0P6.

Golf—Associate wanted to play on Glendale share. 439-0118 evenings.

The long May weekend is a great time for a relaxing holiday at the PB Guest Ranch. Good food, and the horses are here for riding. Box 542, Hinton, Alberta T0E 1B0. Telephone 452-0710.

Junior farm camp—rural activities for eight-thirteen-year-olds. Ministik Hills, thirty miles S.E. of Edmonton. 17-21 July. \$35 inclusive. Fenna, RR2 Tofield, Alberta, T0B 4J0. 1-662-2280.

Reliable student will house sit. Immediately. Good references. Judy, 466-2080.

Third-year Education student, professional secretary will type theses, technical documents after 10 June. 434-3072.

Private lessons—piano, bass, guitar. Telephone 436-0176 after five.

Leaving Edmonton? Need space for furniture, car, etc.? Mini Storage. From \$5.00 weekly. 425-1723; evenings, 467-0586.

Students looking for work in landscaping telephone 439-3531 or 453-9531.

Studio to sublet—downtown, 350 square feet; \$75 monthly. 433-8851.

Tree and shrub pruning. 439-9651 evenings.

Part-time housemother required at the "House Next Door" residential home for eight young women who are re-establishing themselves. Housemother needed for weekend or part-time responsibilities. Specific days negotiable. If interested, telephone 436-0838 or 432-3888, days.

Why pay \$400 for an English nanny service? We have outstanding résumés of English girls wanting to work in Edmonton. Your cost only \$25.00. Telephone 434-9784 for information.

Spanish lessons—conversation, writing; your home or mine. 479-0415.

## Southwest Edmonton Academic Alternative Junior High at Grandview Heights School

### *Enrolling students for the fifth consecutive year*

Additional time and emphasis  
in core subjects

Compulsory French: five periods  
per week

- Choice of Art or Drama
- Small school setting
- Specially designed for those  
students seeking University  
entrance.

### *Major bus routes*

*For information please telephone:  
454-1502*

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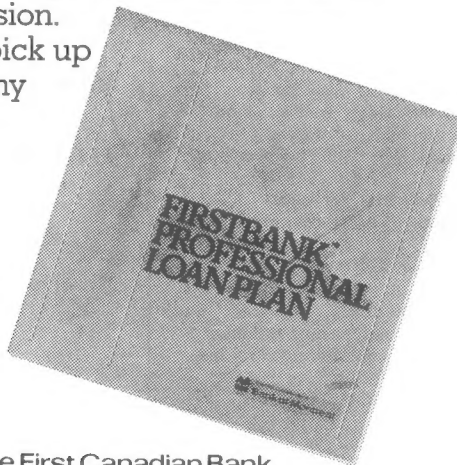
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